Derwent Record

Derwent Title: **Three phase circuits single-phase shorting detection device - has transformer to close switch and control relay and uses transformer to detect screen wire shorting**

Original Title: SU1046717A1: DEVICE FOR DETERMINATION OF SINGLE-PHASE SHORT-CIRCUIT IN THREE-PHASE NETWORKS HAVING INSULATED NEUTRAL

Assignee: **FRUNZE POLY** Standard company
Other publications from FRUNZE POLY (FRPO)...

Inventor: **ANTONOV Y U P; KADENKOV N P; TRACHENKO D I;**

Accession/ Update: **1984-157657 / 198425**

IPC Code: G01R 31/02 ;

Derwent Classes: **S01**; **X12**;

Manual Codes: **S01-G04**(Testing for short circuits, discontinuity and leakage [general]) , **X12-H09**(Power supply/distribution aspects - other)

Derwent Abstract: (SU1046717A) Instrument has improved reliability, achieved by use of a second rectifier, second control winding of the control contact and a current transformer, the first output of the primary winding of which is connected to the earth line of the instrument and the second output is connected to the
terminal with the screening control cable.
During absence of shorting or current leakage, wire (6) on the screen of cut-off (1) is in a closed state and the voltage from three-phase circuit (3) passes to load (17). During non-symmetry of the current in the
primary winding of transformer (4), an a.c. voltage is induced in its secondary winding, which is rectified and passed to control winding (8) of contact (9). The contact is switched and
shorts the winding
of control relay (11). When wire (6) is closed, a voltage is induced in the secondary winding of transformer (13), which is rectified and passed to winding (15) of contact (9), switching it and relay (11) and ensuring selective protective disconnection of current-conducting wire (6). Bul.37/7.10.83

Dwg.1/1

Family:

PDF	Patent	Pub. Date	Derwent Update	Pages	Language	IPC Code
☑	SU1046717A *	1983-10-07	198425	3	English	G01R 31/02

Local appls.: SU1981003364875 Filed:1981-12-18 (81SU-3364875)

Priority Number:

Application Number	Filed	Original Title
SU1981003364875	1981-12-18	DEVICE FOR DETERMINATION OF SINGLE-PHASE SHORT-CIRCUIT IN THREE-PHASE NETWORKS HAVING INSULATED NEUTRAL

Title Terms: THREE=PHASE CIRCUIT SINGLE PHASE SHORT DETECT DEVICE TRANSFORMER CLOSE SWITCH CONTROL RELAY TRANSFORMER DETECT SCREEN WIRE SHORT

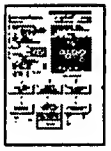
The Delphion Integrated View: INPADOC Record

Title: **SU1046717A1: DEVICE FOR DETERMINATION OF SINGLE-PHASE SHORT-CIRCUIT IN THREE-PHASE NETWORKS HAVING INSULATED NEUTRAL**

Derwent Title: Three phase circuits single-phase shorting detection device - has transformer to close switch and control relay and uses transformer to detect screen wire shorting [Derwent Record]

Country: **SU** Union of Soviet Socialist Republics (USSR)

Kind: **A1** Inventor's Certificate



High Resolution

Inventor: **ANTONOV YURIJ P,SU;**
TKACHENKO DMITRIJ I,SU;
KADENKOV NIKOLAJ P,SU;
SVINOBOEV NIKOLAJ I,SU;

Assignee: **FRUNZENSKIJ POLT INSTITUT** Union of Soviet Socialist Republics (USSR)
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Published / Filed: **1983-10-07** / 1981-12-18

Application Number: **SU1981003364875**

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Family:

PDF	Publication	Pub. Date	Filed	Title
☑	**SU1046717A1**	1983-10-07	1981-12-18	DEVICE FOR DETERMINATION OF SINGLE-PHASE SHORT-CIRCUIT IN THREE-

				PHASE NETWORKS HAVING INSULATED NEUTRAL

1 family members shown above

Other Abstract Info: None

DEVICE FOR DETERMINATION OF SINGLE-PHASE SHORT-CIRCUIT IN THREE-PHASE NETWORKS HAVING INSULATED NEUTRAL

Patent number: SU1046717

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Inventor: ANTONOV YURIJ P; TKACHENKO DMITRIJ I; KADENKOV NIKOLAJ P; SVINOBOEV NIKOLAJ I

Applicant: FRUNSENSKIJ POLITECHN INST [SU]

Classification:

- international: G01R31/02

- european:

Application number: SU19813364875 19811218

Priority number(s): SU19813364875 19811218

Abstract not available for